

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	2	"20040117613".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 11:57
L4	58	(boolean\$5) with ((port? ip) adj4 (number\$5 address\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 11:58
L5	79	(traffic\$5 qos rout\$5) with (boolean\$5) with (port? ip address\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 11:58
L6	5586	(709/224).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 11:58
L7	5352	(709/223).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 12:01
L8	604	(713/150).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 11:58
L9	3	(6 and 4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 11:59
L10	5	(7 and 4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 11:59

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L11	0	(8 and 4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 12:02
L12	1	(8 and 5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 12:02
L13	12	(8 and 6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 12:02
L14	15	(8 and 7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 12:02
S1	6	((("20020061003") or ("20040068665") or ("6965918"))). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 10:53
S2	6	((("6738635") or ("6965781") or ("6972715"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 11:51
S3	4	S2 and (log\$5 register\$5 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 11:34
S4	3	S1 and (log\$5 register\$5 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 11:49

## EAST Search History

S5	2	("20040117613").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 11:50
S6	1	S5 and (boolean\$5 (non adj boolean))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 11:50
S7	1	S5 and (boolean\$5 ("non" adj boolean))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 11:51
S8	42	(traffic\$5 qos ) with (boolean\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 11:58
S9	26	S8 and @ad<"20020719"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 11:58
S10	772	(traffic\$5 qos rout\$5) with (boolean\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 11:58
S11	78	(traffic\$5 qos rout\$5) with (boolean\$5) with (port? ip address\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 11:58
S12	60	S11 and @ad<"20020719"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 12:31

## EAST Search History

S13	58	(boolean\$5) with ((port? ip) adj4 (number\$5 address\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/11 11:58
S14	32	S13 and @ad<"20020719"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 12:31

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"boolean" "quality of service" "monitor"

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interoperable, the **monitor** and evaluator communicate using a ... Condition a **boolean** predicate expression over the facts (i.e. objects) that match the ...  
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protected **boolean** sharable;. public static Resource create ... agement services **monitor** parameters of key attributes in ...  
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[PDF] [Diagnosing quality of service faults in distributed applications ...](#)

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the application (i.e. bandwidth), most **monitor**- ... This variable is set to false and the **boolean** expression is. evaluated. If it. is false, then ...  
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[PDF] [Support Components for Quality of Service in Distributed ...](#)

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service) it is necessary to **monitor** these QoS characteristics during the ... conditions evaluate to **Boolean** results, a false result indicating the condition ...  
[www.cs.stir.ac.uk/~kjt/research/pdf/qos-mon.pdf](#) - [Similar pages](#)

[SNMP critical values monitoring - Scotty](#)

The "SNMP **Monitor** Ex" is a Scotty Tcl extension to the Tkined module. ... The arguments to StrictPrefs are the ID and a TRUE **boolean** flag. ...  
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flection, and used to **monitor** and modify application. behavior. This provides flexibility at ... sets of feature assertions (interpreted as **boolean** vari- ...  
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Web Services **Monitor** Sample (with WebInject GUI): Web Services **Monitor** Sample Output ... Additional Ways WebInject Can **Monitor** Your Web Service ...  
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Tools must be available to **monitor** the **quality of service** of running workflow ... In the case of xor nodes, they are also labeled with **Boolean** expressions. ...  
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guage which contains relational and **Boolean** expres-. sions that can specify both

[http://www.google.com/search?hl=en&lr=&q=%22boolean%22+ %22quality+ of+ service...](http://www.google.com/search?hl=en&lr=&q=%22boolean%22+%22quality+of+service...) 12/11/06

resource ... exits abnormally, the metajob **monitor** detects this, based ...  
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"configuration" "boolean" "quality of service"

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SLA Parser The SLA Parser extracts **configuration** information from the WSLA doc- ...

Condition a **boolean** predicate expression over the facts (i.e. objects) ...

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as **boolean** expressions on a CI's. modes. We refer to such conditions as simple.

**Configuration** Conditions, e.g. (mode 1. or mode 2 or mode 4 or mode 6). ...

[www.omg.org/news/meetings/workshops/RT\\_2003\\_Manual/Presentations/3-](#)

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sets of feature assertions (interpreted as **boolean** vari- ables) which, when set to true, ...

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As an example of an end-to-end service, a **Quality of Service** ... often requires the

**configuration** of every device in the path between the client and ...

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simple condition space with three **Boolean** conditions a, b,. and c. The top node represents

the ... preference **configuration**. The adapt operator guarantees ...

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client side **configuration**. **boolean** set\_policy(in long hosts); ... port for **Quality of Service**

for CORBA Objects", Theory and. Practice of Objectsystems, vol ...

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[SSLSocket \(Java 2 Platform SE v1.4.2\)](#)

public abstract void setUseClientMode(**boolean** mode) ... Unlike setWantClientAuth

(**boolean**) , if the client chooses not to provide authentication information ...

[java.sun.com/j2se/1.4.2/docs/api/javax/net/ssl/SSLSocket.html](#) - 53k -

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[Class com.ibm.broker.config.proxy.TopicProxy](#)

TopicProxy **Configuration** Manager Proxy representation of the requested topic. ...

**boolean** true if and only if the topic has reliable **quality of service**. ...

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### 1 [Coyote: a system for constructing fine-grain configurable communication services](#)



Nina T. Bhatti, Matti A. Hiltunen, Richard D. Schlichting, Wanda Chiu

November 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 4

Publisher: ACM Press

Full text available: pdf(290.21 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Communication-oriented abstractions such as atomic multicast, group RPC, and protocols for location-independent mobile computing can simplify the development of complex applications built on distributed systems. This article describes Coyote, a system that supports the construction of highly modular and configurable versions of such abstractions. Coyote extends the notion of protocol objects and hierarchical composition found in existing systems with support for finer-grain microprotocol ob ...

**Keywords:** x-kernal, configurable sevicees, customization, event handlers, event-driven execution, membership, microprotocols, mobile computing, modularity, multicast, protocols, remote procedure call

### 2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 3 [A system for constructing configurable high-level protocols](#)



Nina T. Bhatti, Richard D. Schlichting

October 1995 **ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(1.42 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New distributed computing applications are driving the development of more specialized protocols, as well as demanding greater control over the communication substrate. Here, a network subsystem that supports modular, fine-grained construction of high-level protocols such as atomic multicast and group RPC is described. The approach is based on extending the standard hierarchical model of the x-kernel with composite protocols in which micro-protocol objects are composed within a standard r ...

#### 4 Quality of service transferred to information retrieval: the adaptive information



##### retrieval system

Claudia Rolker, Ralf Kramer

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

**Publisher:** ACM Press

Full text available: pdf(665.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Users often quit an information retrieval system (IR system) very frustrated, because they cannot find the information matching their information needs. We have identified the following two main reasons: too high expectations and wrong use of the system. Our approach which addresses both issues is based on the transfer of the concept of Quality of Service to IR systems: The user first negotiates the retrieval success rates with the IR system, so he knows what to expect from the system in ad ...

**Keywords:** adaptation, information retrieval, precision, quality of service (QoS), query reformulation, recall, retrieval success rates

#### 5 A potpourri of ideas for event-based processing: A case study on event dissemination



##### in an active overlay network environment

Sérgio Duarte, J. Legatheaux Martins, Henrique J. Domingos, Nuno Preguiça

June 2003 **Proceedings of the 2nd international workshop on Distributed event-based systems**

**Publisher:** ACM Press

Full text available: pdf(1.80 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we describe a case study of the design and development of a group-conferencing tool suite, built on top of an overlay network based event dissemination framework, which is extensible via quality of service template plug-ins. We explain, for each of the tools, how the framework built-in conveniences were explored to create simple but effective distributed solutions, backed by the appropriate quality of service templates, whose design we also discuss.

**Keywords:** active networks, case study, event dissemination, multicasting, overlay networks, quality of service (QoS)

#### 6 Mobility: A micro-economic approach to conflict resolution in mobile computing



Licia Capra, Wolfgang Emmerich, Cecilia Mascolo

November 2002 **Proceedings of the 10th ACM SIGSOFT symposium on Foundations of software engineering**

**Publisher:** ACM Press

Full text available: pdf(172.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile devices, such as mobile phones and personal digital assistants, have gained widespread popularity. These devices will increasingly be networked, thus enabling the construction of distributed mobile applications. These have to adapt to changes in context, such as variations in network bandwidth, exhaustion of battery power or reachability of services on other devices. We show how the construction of adaptive and context-aware mobile applications can be supported using a reflective middlew ...

**Keywords:** conflict resolution, context-awareness, game theory, middleware, mobile

computing, reflection

7 Session 3: mobility: A micro-economic approach to conflict resolution in mobile computing



Licia Capra, Wolfgang Emmerich, Cecilia Mascolo

November 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 6

**Publisher:** ACM Press

Full text available: pdf(1.14 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobile devices, such as mobile phones and personal digital assistants, have gained wide-spread popularity. These devices will increasingly be networked, thus enabling the construction of distributed mobile applications. These have to adapt to changes in context, such as variations in network bandwidth, exhaustion of battery power or reachability of services on other devices. We show how the construction of adaptive and context-aware mobile applications can be supported using a reflective middlew ...

**Keywords:** conflict resolution, context-awareness, game theory, middleware, mobile computing, reflection

8 Memory space requirements for self-stabilizing leader election protocols



Joffroy Beauquier, Maria Gradinariu, Colette Johnen

May 1999 **Proceedings of the eighteenth annual ACM symposium on Principles of distributed computing**

**Publisher:** ACM Press

Full text available: pdf(1.08 MB) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

**Keywords:** decidability, leader election, memory space requirement, mutual exclusion, self-stabilization

9 A strategy for synchronising simplex message streams



J. M. McCaig

January 1991 **ACM SIGCOMM Computer Communication Review**, Volume 21 Issue 1

**Publisher:** ACM Press

Full text available: pdf(880.96 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

In information networks which, for example, employ satellites or LANs with broadcast or multi-cast capability, data flow is often simplex. Various quality of service improvements are possible by using redundant network capacity, which is intended for "fail-over", to carry duplicate message streams instead. This paper examines a strategy for synchronising message streams delivered via diverse but unreliable routes, and illustrates it with a Pascal procedure called Y.

**Keywords:** LAN bridging, broadcast, simplex

10 Java implementation of policy-based bandwidth management

S. Jha, M. Hassan

July 2003 **International Journal of Network Management**, Volume 13 Issue 4

**Publisher:** John Wiley & Sons, Inc.

Full text available: pdf(246.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a Java implementation of a policy based bandwidth management system using the standard policy protocols and an interface to the Linux Diffserv implementation. The useful features, such as extensibility and object orientation, of the Java implementation is illustrated by directly referring to the relevant programming codes.

Through two practical experiments, we demonstrate the capability of our implementation in supporting policy-based dynamic resource allocations in enterprise network ...

11 An architectural approach for integrated network and systems management



Raouf Boutaba, Simon Znaty

October 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 5

**Publisher:** ACM Press

Full text available: [pdf\(1.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Today's enterprises are accepting networked systems as a fundamental part of their information technology strategy. The constant growth in quantity and quality of networked systems and the thereby arising problems concerning complexity, heterogeneity and diversity of components in a multi-vendor environment require a sophisticated management of resources. Increasingly the automation of such management is being demanded. In this paper we introduce an architecture for the integrated management of a ...

12 Computing curricula 2001



September 2001 **Journal on Educational Resources in Computing (JERIC)**

**Publisher:** ACM Press

Full text available: [pdf\(613.63 KB\)](#)

[html\(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 Partial-order transport service for multimedia and other applications

Paul D. Amer, Christophe Chassot, Thomas J. Connolly, Michel Diaz, Phillip Conrad

October 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 5

**Publisher:** IEEE Press

Full text available: [pdf\(1.56 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 L2imbo: a distributed systems platform for mobile computing

Nigel Davies, Adrian Friday, Stephen P. Wade, Gordon S. Blair

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

**Publisher:** Kluwer Academic Publishers

Full text available: [pdf\(403.96 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Mobile computing environments increasingly consist of a range of supporting technologies offering a diverse set of capabilities to applications and end-systems. Such environments are characterised by sudden and dramatic changes in the quality-of-service (QoS) available to applications and users. Recent work has shown that distributed systems platforms can assist applications to take advantage of these changes in QoS and, more specifically, facilitate applications to adapt to their environment ...

15 Superposing Connectors

Michel Wermelinger, Antónia Lopes, José Luiz Fiadeiro

November 2000 **Proceedings of the 10th International Workshop on Software Specification and Design**

**Publisher:** IEEE Computer Society

Full text available: [pdf\(200.08 KB\)](#)



[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [citations](#)

The ability to construct architectural connectors in a systematic and controlled way has been argued to promote reuse and incremental development, e.g., as a way of superposing, à la Carte, services like security over a given communication protocol. Towards this goal, we present a notion of high-order connector, i.e., a connector that takes connectors as parameters, for superposing coordination mechanisms over the

interactions that are handled by the connectors that are passed as actual argument ...

16 Mariposa: a wide-area distributed database system

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, Andrew Yu

January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(172.75 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The requirements of wide-area distributed database systems differ dramatically from those of local-area network systems. In a wide-area network (WAN) configuration, individual sites usually report to different system administrators, have different access and charging algorithms, install site-specific data type extensions, and have different constraints on servicing remote requests. Typical of the last point are production transaction environments, which are fully engaged during normal business h ...


**Keywords:** Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area network

17 State-of-the-art presentations: Distributed component technologies and their software engineering implications

Wolfgang Emmerich

May 2002 **Proceedings of the 24th International Conference on Software Engineering**

**Publisher:** ACM Press

Full text available:  pdf(1.27 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this state of the art report, we review advances in distributed component technologies, such as the Enterprise Java Beans specification and the CORBA Component Model. We assess the state of industrial practice in the use of distributed components. We show several architectural styles for whose implementation distributed components have been used successfully. We review the use of iterative and incremental development processes and the notion of model driven architecture. We then assess the st ...

18 Map adaptation for users of mobile systems

Dan Chalmers, Morris Sloman, Naranker Dulay

April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  pdf(298.59 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** adaptive application, quality of service

19 Vinci: a service-oriented architecture for rapid development of web applications

Rakesh Agrawal, Roberto J. Bayardo, Daniel Gruhl, Spiros Papadimitriou

April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  pdf(472.82 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Behavioral contracts and behavioral subtyping

Robert Bruce Findler, Mario Latendresse, Matthias Felleisen

September 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th European software engineering conference held jointly with 9th ACM**

**SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-9**, Volume 26 Issue 5

Publisher: ACM Press

Full text available:  pdf(95.22 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Component-based software manufacturing has the potential to bring division-of-labor benefits to the world of software engineering. In order to make a market of software components viable, however, producers and consumers must agree on enforceable software contracts. In this paper, we show how to enforce contracts if components are manufactured from class and interface hierarchies. In particular, we focus on one style of contract: pre- and post-conditions. Programmers annotate class and interface ...

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### 1 [Communication architecture tuners: a methodology for the design of high-](#)



#### [performance communication architectures for systems-on-chips](#)

 Kanishka Lahiri, Anand Raghunathan, Ganesh Lakshminarayana, Sujit Dey  
June 2000 **Proceedings of the 37th conference on Design automation**

Publisher: ACM Press

 Full text available: [pdf\(211.36 KB\)](#)

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In this chapter, we present a general methodology for the design of custom system-on-chip communication architectures. Our technique is based on the addition of a layer of circuitry, called the Communication Architecture Tuner (CAT), around any existing communication architecture topology. The added layer enhances the ability of the system to adapt to changing communication needs of its constituent components. For example, more critical data may be handled differently, leading to lower comm ...

### 2 [Restoration by path concatenation: fast recovery of MPLS paths](#)



Anat Bremler-Barr, Yehuda Afek, Haim Kaplan, Edith Cohen, Michael Merritt

 August 2001 **Proceedings of the twentieth annual ACM symposium on Principles of distributed computing**

Publisher: ACM Press

 Full text available: [pdf\(830.71 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A new general theory about *restoration* of network paths is first introduced. The theory pertains to restoration of shortest paths in a network following failure, e.g., we prove that a shortest path in a network after removing  $k$  edges is the concatenation of at most  $k + 1$  shortest paths in the original network.

The theory is then combined with efficient path concatenation techniques in MPLS (multi-protocol label switching), to achieve powerful schemes for restorati ...

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